# Traincuiton

#### PATENT COOPERATION TREATY

### **PCT**



D 0 5 OCT 2005		tent Cooperation Treaty	
PO PCT	(PCT Article	e 36 and Rule 70)	•
Applicant's or agent's fil	e reference		
CPS41234 FOR FURTHER		ACTION S∞ Form PCT/IPEA/416	
International application	No. International filing d	ate (day/month/year)	Priority date (day/month/year)
PCT/CN2004/	09.MAY.20	04 (09.05.2004)	10.MAY.2003 (10.05.2003)
1	sification (IPC) or national classification 2N15/12,A61K48/00,A61P17/00	and IPC	
Applicant PENG, 25	iaohui et al.	<del></del>	
1. This report is the in	ternational preliminary examination report transmitted to the applicant according to		national Preliminary Examining Author
2. This REPORT cons		sheets, including this	s cover sheet.
3. This report is also a	ccompanied by ANNEXES, comprising:		
the dis Box.  b. (sent to containing	which supersede earlier sheets, but while sclosure in the international application the International Bureau only) a total a sequence listing and/or tables related to Sequence Listing (see Section 802 of the	as filed, as indicated in its of (indicate type and m hereto, in electronic form o	am 4 of Box No. and the Supplemental indicated in the Supplemental
4. This report contains	s indications relating to the following iter	ns:	<del></del>
Box No. 1	Basis of the report		
Box No. II	Priority		
Box No. III	Non-establishment of opinion with reg	gard to novelty, inventive st	ep and industrial applicability
Box No. IY	Lack of unity of invention		
⊠ Box No. V	Reasoned statement under Article 35(2)	with regard to novelty, inv	entive step or industrial applicability;
	citations and explanations supporting s	uch statement	
Box No. VI	Certain documents cited		
Box No. VII	Certain defects in the international app		
Box No. VIII	Certain observations on the internation	nal application	
Date of submission of the demand		Date of completion of this report	
14.Sep.2004(14.09.2004)		06.Sep.2005(06.09,2005)	
6 Xitucheng Rd., Jimen	al Property Office, the P.R.China, Bridge, Haidian District, Beijing, China 100088	Authorized officer	KE,Ke
Facsimile No. 86-10-62	U19431	Telephone No. (86-10):	02003030

Form PCT/IPEA/409 (cover sheet) (April 2005)

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interne, and application No. PCT/CN2004/000458

1. S	citations and explanations s	upporting s	uch statement	
<del></del>				
	Novelty (N)	Claims	4-8	YES
		Claims	1-3,9	NO NO
	Formation at a GO			:: -111
	Inventive step (IS)	Claims		YES
!		Claims	1-9	NO NO
	Industrial applicability (IA)	Claims	1-9	YES
		Claims		NO
2.	Citations and explanations (Rule 70.7)			

Document 1(D1):THE JOURNAL OF GENE MEDICINE 2000,2 (6), 426-432,

Toshiro Shirakawa et al:P53 Adenoviral vector(Ad-CMV-p53) induced prostatic growth inhibition of primary cultures of human prostate and an experimental rat model.

Document 2(D2):CN1401778A 12.03.2003

About novelty:

D1 has disclosed that the recombinant of adenoviral vector and p53 can be used in the treatment of prostatic hyperplasia. Prostatic hyperplasia is a kind of proliferative disease. So the technical solution of claim 1 has been disclosed by D1. Claim 1 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2) PCT.

Claims 2,3,9 are dependent claims of claim 1. The additional technical features of these claims have been disclosed in D1(such technical features lie in "production of recombinant adenoviruses" and "in vivo experimental design" of "materials and methods" of D1). Thus claims 2,3,9 don't appear to be novel and don't appear to meet the criteria mentioned in article 33(2)PCT.

The technical solutions of claims 4-8 aren't disclosed. Thus, claims 4-8 possess novelty and meet the criteria mentioned in article 33(2)PCT.

About inventiveness:

Claims 4,5 are dependent claims of claim 1. The additional technical features of them are the products defined by the preparation method. Though D1 didn't disclosed the preparation method of the recombinant in detail, D2 disclosed the recombinant which was prepared by the same method as that of claims 4-5 (see the claims). There is no substantive difference between the products of D1 and D2. It's easy for the person skilled in the relevant field of technology to realize that such similar products have the same use. So it's obvious for the person skilled in the relevant field of technology to obtain the technical solutions of claims 4-5 through combination of D1 and D2. Thus, claims 4 and 5 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

Claims 6-8 are dependent claims of claim 1. The additional technical features of them are the types of proliferative diseases. Because these proliferative diseases have similar pathogenesis with prostatic hyperplasia, the technical solutions of claims 6-8 are obvious to the person skilled in the relevant field of technology in light of D1. Claims 6-8 don't appear to be inventive and don't appear to meet the criteria mentioned in article 33(3)PCT.

About industrial applicability:

Claims 1-9 can all be used in treatment of diseases and possess industrial applicability. They all meet the criteria mentioned in article 33(4)PCT.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internat.....al application No. PCT/CN2004/000458

Box No. I Basis of the report	•			
1. With regard to the language, this report is based on:				
the international application in the language in which it	was filed			
a translation of the international application into		which is the language of a		
translation furnished for the purposes of:	,	······································		
international search (Rules 12.3(a) and 23.1(b))				
publication of the international application (Rule 12.4	d(a))			
international preliminary examination (Rules 55.2(a)				
Cambridge Profitming Communicity (Natices 55.2(a)	ald 01 33.3(a))			
2. With regard to the elements of the international application, th to the receiving Office in response to an invitation under Article annexed to this report):	iis report is based on (replacemen le 14 are referred to in this report	t sheets which have been furnished t as "originally filed" and are not		
the international application as originally filed/furnished				
the description:		•		
pages		as originally filed/furnished		
pages 1-12	received by this Authority on	19.Nov.2004		
pages •	received by this Authority on			
☑ the claims:				
claims				
claims '		as originally filed/furnished		
claims 1-9		th any statement)under Article 19		
claima *	received by this Authority on	19.Nov.2004		
Ciailis	received by this Authority on			
the drawings:				
pages		as originally filed/furnished -ed		
pages • 1-11	received by this Authority on	19.Nov.2004		
pages *	received by this Authority on			
a sequence listing and/or any related table(s) - see Supplement	·			
a sequence listing and/or any related table(s) - see Suppleme	ntal Box Relating to Sequence Li	sting.		
3. The amendments have resulted in the cancellation of:				
3. In amendments have resulted in the cancellation of:		į.		
the description, pages		į		
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to sequence listing (specify):				
This report has been established as if (some of) the amendmen	its annexed to this report and liste	d below had not been made.		
since they have been considered to go beyond the disclosure	as filed, as indicated in the Suppl	emental Box (Rule 70,2(c)).		
The day of the state of the sta				
The drawings sheets/figs				
the sequence listing (specify):				
any table(s) related to sequence listing (encated)				
any table(s) related to sequence listing (specify):  * If item 4 applies, some or all of those sheets may be marked "sup	perioded "			

Form PCT/IPEA/409 (Box No. I) (April 2005)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Inter. anal application No.
PCT/CN2004/000458

Supplemental Box Relating to Sequence Listing	
Continuation of Box No. I, item 2:	
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this report was established on the basis of:	ation and necessary to the claim
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
on paper	
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed	
filed together with the international application in electronic form	
furnished subsequently to this Authority for the purposes of search and/or examination received by this Authority as an amendment on 19.Nov.2004	
17.100.2004	
2. In addition, in the case that more than one version or copy of a sequence listing and/or table	
or furnished, the required statements that the information in the subsequent or additional copi	es is identical to that in the
application as filed or does not go beyond the application as filed, as appropriate, were furnish	
3. Additional comments:	
	•
•	
•	
ltem 4 in Box No.I applies, the listing and/or table(s) related thereto, which form part of the basis of sperseded."	of the report, may be marked
	1 / 1